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Application Number	09/978,600
Filing Date	October 15, 2001
First Named Inventor	Corinna Herrnsstadt
Group Art Unit	1636
Examiner Name	Not yet assigned
Attorney Docket No.	660088.401C9

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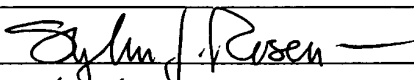
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Remarks

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Individual Name	Stephen J. Rosenman, 43,058	 00500 PATENT TRADEMARK OFFICE
Signature		
Date	1/22/02	

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Corinna Herrnsstadt et al.
Application No. : 09/978,600
Filed : October 15, 2001
For : DIAGNOSTIC AND THERAPEUTIC COMPOSITIONS FOR
ALZHEIMER'S DISEASE

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Art Unit : 1636
Docket No. : 660088.401C9
Date : January 22, 2002

Commissioner for Patents
Washington, DC 20231

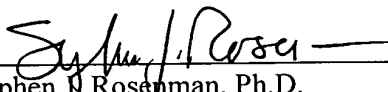
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Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached Forms PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,
Seed Intellectual Property Law Group PLLC



Stephen N. Rosenman, Ph.D.
Registration No. 43,058

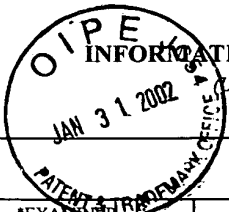
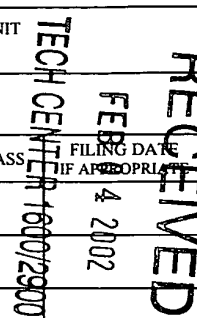
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Enclosures:

Postcard
Forms PTO-1449 (4 Sheets)
Cited References (45)

701 Fifth Avenue, Suite 6300
Seattle, Washington 98104-7092
Phone: (206) 622-4900
Fax: (206) 682-6031

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 660088.401C9		APPLICATION NO. 09/978,600	
 <p style="margin: 0;">INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)</p>				APPLICANTS Corinna Herrnstadt et al.			
				FILING DATE October 15, 2001		GROUP ART UNIT 1636	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	5,185,244	02/09/93	Wallace	435	6		
AB	5,565,323	10/15/96	Parker et al.	435	6		
AC	6,171,859 B1	01/09/01	Herrnstadt et al.	435	375		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
AD	WO 94/09162	04/28/94	WIPO				
AE	WO 91/19815	12/26/91	WIPO				
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
AF	Anderson et al., "Sequence and Organization of the Human Mitochondrial Genome," <i>Nature</i> 290(5806):457-465, April 9, 1981.						
AG	Barany, "The Ligase Chain Reaction in a PCR World," <i>PCR Methods and App.</i> 1(1):5-16, 1991.						
AH	Barany, "Genetic Disease Detection and DNA Amplification Using Cloned Thermostable Ligase," <i>P.N.A.S. USA</i> 88(1):189-193, January 1, 1991.						
AI	Bennett et al., "Cytochrome Oxidase Inhibition A Novel Animal Model of Alzheimer's Disease," <i>J. of Geriatric Psychiatry and Neurology</i> 5(2):93-101, 1992.						
AJ	Bowling et al., "Age-Dependent Impairment of Mitochondrial Function in Primate Brain," <i>J. of Neurochemistry</i> 60(5):1964-1967, 1993.						
AK	Chandrasekaran et al., "Differential Expression of Cytochrome Oxidase (COX) Genes in Different Regions of Monkey Brain," <i>J. of Neuroscience Research</i> 32(3):415-423, July 1992.						
AL	Chandrasekaran et al., "Localization of Cytochrome Oxidase (COX) Activity and COX mRNA in Perirhinal and Superior Temporal Sulci of The Monkey Brain," <i>Brain Research</i> 606(2):213-219, March 26, 1993.						
AM	Conner et al., "Detection of Sickel Cell β^s -globin Allele by Hybridization with Synthetic Oligonucleotides," <i>P.N.A.S. USA</i> 80(1):278-282, January 1983.						
AN	Erlich et al., "Specific DNA Amplification," <i>Nature</i> 331:461-462, February 4, 1988.						
AO	Fodor et al., "Light-directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> 251(4995):767-773, February 15, 1991.						
EXAMINER				DATE CONSIDERED			
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant(s).</p>							

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
660088.401C9APPLICATION NO.
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Corinna Herrnstadt et al.

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October 15, 2001

GROUP ART UNIT

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U.S. PATENT DOCUMENTS

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BA						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
			YES NO
BB			

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BC	Fodor et al., "Multiplexed Biochemical Assays With Biological Chips," <i>Nature</i> 364(6437):555-556, August 5, 1993.
BE	Ghosh et al., "Use of Maleimide-Thiol Coupling Chemistry for Efficient Syntheses of Oligonucleotide-Enzyme Conjugate Hybridization Probes," <i>Bioconjugate Chemistry</i> 1(1):71-76, 1990.
BF	Gibbs et al., "Detection of Single DNA Base Differences by Competitive Oligonucleotide Priming," <i>Nucleic Acids Research</i> 17(7):2437-2448, April 11, 1989.
BG	Gingeras et al., "Use of Self-Sustained Sequence Replication Amplification Reaction to Analyze and Detect Mutations in Zidovudine-Resistant Human Immunodeficiency Virus," <i>J. of Infectious Diseases</i> 164(6):1066-1074, December 1991.
BH	Howell et al., "Leber Hereditary Optic Neuropathy: Identification of the Same Mitochondrial ND1 Mutation in Six Pedigrees," <i>Am. J. Hum. Genet.</i> 49(5):939-950, November 1991.
BI	Ishii and Ghosh, "Bead-based Sandwich Hybridization Characteristics of Oligonucleotide-Alkaline Phosphatase Conjugates and Their Potential for Quantitating Target RNA Sequences," <i>Bioconjugate Chemistry</i> 4(1):34-41, 1993.
BJ	Jablonski et al., "Preparation of Oligodeoxynucleotide-Alkaline Phosphatase Conjugates and Their Use as Hybridization Probes," <i>Nucleic Acids Research</i> 14(15):6115-6128, August 11 1986.
BK	Jenner, "Oxidative Stress as a Cause of Parkinson's Disease," <i>Acta Neurol. Scand. Suppl.</i> 136:6-15, 1991.
BL	Kish, et al., "Brain Cytochrome Oxidase in Alzheimer's Disease," <i>J. of Neurochemistry</i> 59(2):776-779, August 1992.

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DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
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CB			

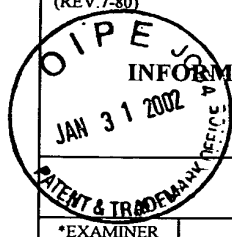
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CC	Kuppuswamy et al., "Single Nucleotide Primer Extension to Detect Genetic Diseases: Experimental Application to Hemophilia B (Factor IX) and Cystic Fibrosis Genes," <i>P.N.A.S. USA</i> 88(4):1143-1147, February 15, 1991.
CD	Landegren et al., "A Ligase-Mediated Gene Detection Technique," <i>Science</i> 241(4869):1077-1080, August 26, 1988.
CE	Li et al., "Enzyme-linked Synthetic Oligonucleotide Probes: Non-Radioactive Detection of Enterotoxigenic Escherichia Coli in Faecal Specimens," <i>Nucleic Acids Research</i> 15(13):5275-5287, July 10, 1987.
CF	Luft, "The Development of Mitochondrial Medicine," <i>P.N.A.S. USA</i> 91(19):8731-8738, September 13, 1994.
CG	Matthews and Kricka, "Analytical Strategies for The Use of DNA Probes," <i>Analytical Biochemistry</i> 169(1):1-25, February 15, 1988.
CH	Newton et al., "Analysis of Any Point Mutation in DNA. The Amplification Refractory Mutation System (ARMS)," <i>Nucleic Acids Research</i> 17(7):2503-2516, April 11, 1989.
CJ	Nickerson et al., "Automated DNA Diagnostics Using An ELISA-based Oligonucleotide Ligation Assay," <i>P.N.A.S. USA</i> 87(22):8923-8927, November 1990.
CK	Parker et al., "Abnormalities of the Electron Transport Chain in Idiopathic Parkinson's Disease," <i>Ann. Neurol.</i> 26(6):719-723, December 1989.
CL	Parker et al. "Cytochrome Oxidase Deficiency in Alzheimer's Disease," <i>Neurology</i> 40(8):1302-1303, August 1990.
CM	Partridge et al., "Spin Trapping of Azidyl and Hydroxyl Radicals in Azide-Inhibited Rat Brain Submitochondrial Particles," <i>Arch. Biochem. Biophys.</i> 310(1):210-217, April 1994.
CN	Power et al., "Nucleotide Sequence of Human Mitochondrial Cytochrome C Oxidase II cDNA," <i>Nucleic Acids Research</i> 17(16):6734, August 25, 1989.

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
				YES	NO
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DC	Richman et al., "Human Immunodeficiency Virus Type I Mutants Resistant to Nonnucleotide Inhibitors of Reverse Transcriptase Arise in Tissue Culture," <i>P.N.A.S. USA</i> 88(24):11241-11245, December 15, 1991.
DD	Saiki et al., "Genetic Analysis of Amplified DNA with Immobilized Sequence-Specific Oligonucleotide Probes," <i>P.N.A.S. USA</i> 86(16):6230-6234, August 1989.
DE	Shoffner et al., "Mitochondrial DNA Variants Observed in Alzheimer Disease and Parkinson Disease Patients," <i>Genomics</i> 17(1):171-184, July 1993.
DF	Simonian et al., "Functional Alterations in Alzheimer's Disease: Diminution of Cytochrome Oxidase in the Hippocampal Formation," <i>J. of Neuropathy and Experimental Neurology</i> 52(6):580-585, November 1993.
DG	Suggs et al., "Use of Synthetic Oligonucleotides as Hybridization Probes: Isolation of Cloned cDNA Sequences for Human β_2 -microglobulin," <i>P.N.A.S. USA</i> 78(11):6613-6617, November 1981.
DH	Suzuki et al., "Diabetes With Mitochondrial Gene tRNA ^{Lys} Mutation," <i>Diabetes Care</i> 17(11): 1428-1432, November 1994.
DI	Syvänen et al., "A Primer-guided Nucleotide Incorporation Assay in The Genotyping of Apolipoprotein E," <i>Genomics</i> 8(4):684-692, December 1990.
DJ	Wallace, "Mitochondrial Genetics: A Paradigm for Aging and Degenerative Diseases," <i>Science</i> 256(5057):628-632, May 1, 1992.
DK	Wallace, et al., "Mitochondrial DNA Mutations in Epilepsy and Neurological Disease", <i>Epilepsia</i> 35:S43-S50, 1994.
DL	Wu and Wallace, "The Ligation Amplification Reaction (LAR)-amplification of Specific DNA Sequences Using Sequential Rounds of Template-dependent Ligation," <i>Genomics</i> 4(4):560-569, May 1989.

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